

**Key Learning of this Unit: Metric Measurement**

The metric system is the universal system of measurement in science.

**Unit Essential Question:**

How is the metric system organized and used by scientists?

**Instructional Tools:**

Rulers, meter sticks, tape measures, triple-beam balance, graduated cylinder,

**Concept:**

Universal measurements

**Lesson EQ:**

Why do scientists use a standard measurement system?

**Lesson EQ:**

What are the SI prefixes and base words?

**Lesson EQ:**

**Vocabulary:**

SI (system of units), milli-, centi-, kilo-, meter, liter, gram,

**Concept:**

Linear measurements

**Lesson EQ:**

How do scientists measure small distances?

**Lesson EQ:**

How do scientists measure large distances?

**Lesson EQ:**

**Vocabulary:**

Meter, centimeter, millimeter, kilometer, light year

**Concept:**

Mass and Weight

**Lesson EQ:**

How do scientists find the mass of objects?

**Lesson EQ:**

What is the difference between mass and weight?

**Lesson EQ:**

**Vocabulary:**

Gram, kilogram, milligram, mass, weight, Newtons, triple-beam balance

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**Concept:**

Volume

**Lesson EQ:**

How do scientists measure the volume of a liquid?

**Lesson EQ:**

How do scientists measure the volume of a solid?

**Lesson EQ:**

**Vocabulary:**

Graduated cylinder, meniscus, cubic centimeter, liter, milliliter, kiloliter, volume

**Concept:**

Density

**Lesson EQ:**

How do scientists measure the density of a substance?

**Lesson EQ:**

How does density relate to buoyancy?

**Lesson EQ:**

**Vocabulary:**

buoyancy, density

**Concept:**

**Lesson EQ:**

**Lesson EQ:**

**Lesson EQ:**

**Vocabulary:**